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Date of Deposit: February 27, 2003

Attorney Docket No: 21127-501RCE



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Perrin et al.  
SERIAL NUMBER: 09/314,698  
FILING DATE: May 19, 1999  
FOR: MICRO-ARRAY BASED SUBTRACTIVE HYBRIDIZATION

EXAMINER: Juliet C. Einsmann

ART UNIT: 1655

February 27, 2003  
Boston, Massachusetts

Commissioner for Patents  
Washington, D.C. 20231

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TRANSMITTAL LETTER

Transmitted herewith for filing in the present application are the following documents:

- ☒ Amendment and Response;
- ☒ Petition for Extension of Time (1 pg., in duplicate);
- ☒ Check #15679 for \$930.00; and
- ☒ Return Postcard.

If the enclosed papers are considered incomplete, the Mail Room is respectfully requested to contact the undersigned collect at (617) 542-6000, Boston, Massachusetts. The Commissioner is authorized to credit any overpayment or charge any deficiencies to Deposit Account No. 50-0311, Reference No. 21127-501RCE. A duplicate copy of this Transmittal Letter is enclosed.

Respectfully submitted,

*LA Beattie*

Ingrid A. Beattie, Reg. No. 42,306

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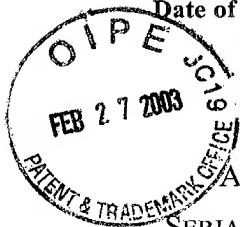
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PATENT TRADEMARK OFFICE

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANTS : Perrin et al.  
SERIAL NUMBER : 09/314,698 EXAMINER : Juliet C. Einsmann  
FILING DATE : May 19, 1999 ART UNIT : 1634  
FOR : Micro-Array Based Subtractive Hybridization

Assistant Commissioner for Patents  
Washington, D.C. 20231

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**RESPONSE AND AMENDMENT**

In response to the Office Action mailed on August 27, 2002, please amend the application as follows.

In the Figures:

Please replace the pending figures with the enclosed replacement Figures 1-4 (4 sheets).

In the Claims:

Cancel claims 27-57.

Add new claims 58-62.

58. A method of enhancing the rate of novel gene discovery in a population of previously-uncharacterized nucleic acid molecules, comprising

a. contacting an first ordered array of nucleic acid samples from said population with an initial complex subtraction probe pool, said probe pool comprising a labeled probe corresponding to a redundant or known sequence;

b. identifying a nucleic acid, said nucleic acid being characterized by weak or no hybridization to said initial probe pool;